

WHAT IS CLAIMED IS:

1 1. A method of reacquisition in a wireless
2 communication system comprising:

3 obtaining a metric indicating of signal conditions;

4 comparing the metric to a first predetermined threshold;

5 attempting connection with the synchronization channel if
6 the metric meets or exceeds the first predetermined threshold;
7 and

8 performing reacquisition if the metric does not meet the
9 first predetermined threshold.

1 2. The method of Claim 1, further comprising comparing
2 the metric to a second predetermined threshold and attempting
3 narrow reacquisition if the metric meets or exceed the second
4 predetermined threshold.

1 3. The method of Claim 1, wherein the metric indicates
2 signal quality.

1 4. The method of Claim 1, wherein the metric is receive
2 signal strength indicator (RSSI).

1 5. The method of Claim 1, wherein the metric is bit
2 error rate.

1 6. The method of Claim 1, wherein the metric is E_c/I_o .

1 7. The method of Claim 1, wherein the metric is finger
2 correlation.

1 8. A method of enhancing reacquisition in a wireless
2 communication system comprising:

3 determining signal strength;

4 connecting to the synchronization channel if the signal
5 strength meets or exceeds a first threshold;

6 performing narrow reacquisition if the signal strength is
7 between the first threshold and a second threshold; and

8 performing full reacquisition if the signal strength is
9 at or below the second threshold.

1 9. The method of Claim 8, further comprising creating a
2 history log of reacquisition performance.

1 10. The method of Claim 9, further comprising
2 determining the first threshold and the second threshold using
3 historical data in the history log.

1 11. The method of Claim 8, wherein the first threshold
2 and the second threshold are predetermined.

1 12. The method of Claim 8, wherein the signal strength
2 is determined using a signal quality metric.

1 13. The method of Claim 8, wherein the signal strength
2 is determined by a mobile station.

1 14. The method of Claim 8, wherein the signal strength
2 is determined upon call release.

1 15. The method of Claim 8, wherein the signal strength
2 is determined following call release.

1 16. A mobile station for use in a wireless communication
2 system comprising:

3 a signal quality indicator which determines signal
4 quality; and

5 a reacquisition logic circuit which determines the
6 appropriate reacquisition procedure based on the signal
7 quality.

1 17. The mobile station of Claim 16, wherein the
2 reacquisition logic circuit connects the mobile station to a
3 synchronization channel if the signal quality exceeds a first
4 threshold.

1 18. The mobile station of Claim 16, wherein the
2 reacquisition logic circuit directs the mobile station to

3 reacquire a base station if the signal quality falls below a
4 first threshold.

1 19. The mobile station of Claim 18, wherein the
2 reacquisition logic circuit directs the mobile station to
3 perform a narrow reacquisition if the signal quality exceeds a
4 second threshold.

1 20. The mobile station of Claim 16, wherein the signal
2 quality indicator determines the signal quality using a
3 metric.

1 21. The mobile station of Claim 20, wherein the metric
2 is RSSI.

1 22. The mobile station of Claim 20, wherein the metric
2 is finger correlation.